

EWM-G108H

Embedded GPS/ GNSS Module Half-size Mini PCIe Card



Features

- 56-Ch u-blox NEO-7 engine (GPS, GLONASS, Galileo, QZSS and SBAS)
- 1 second TTFF for Hot Starts, Open sky code start 29 second.
- Accuracy SBAS 2.5 m CEP
- Operating temperature: -40 to +85° C

Specifications

Main Chipset	u-blox NEO-7
Receiver Type	56 Channels GPS L1 C/A, GALILEO L1 FDMA, QZSS L1 C/A and Galileo E1 B/C
Time-To-First-Fix (GPS)	Cold Start: 29 s Warm Start: 28 s Hot Start: 1 s
Sensitivity (GPS)	Tracking & Navigation: -162 dBm Reacquisition: -160 dBm Cold Start: -148 dBm
Horizontal Position Accuracy	Autonomous: 2.5 m SBAS: 2.0 m
Accuracy of Time Pulse Signal	RMS: 30 ns 99%: 60 ns Time Pulse Configurable: f=0.25...10M Hz
Velocity Accuracy	0.1 m/s
Heading Accuracy	0.5 degress
Dynamics	< 4 g
Operational Limits	Altitude: 50000 m, Velocity: 500 m/s
Operating Temperature	-40 to +85° C

Ordering Information

Part No.	Product Description
EWM-G108H01E	Embedded u-blox NEO-7, GPS/GNSS Half-size Mini PCIe Card

Suggested Antenna and Cable

Part No.	Specifications
1750007991-01	GPS antenna 1575 MHz, Antenna 3 dBi, (Zenith) L1: 1575.42 MHz, B2: 1561.098 MHz, GNSS: 1602 MHz antenna 4.94 x 3.93 x 1.49, RHCP and SMA male (cm)
1750006264	Coaxial Cable, 15 cm, SMA (F) to MHF
1750006009	Coaxial Cable, 25 cm, SMA (F) to MHF

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